



MAY 12 2006

SUBSTITUTE FOR FORM 1449/PTO

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 2 Attorney Docket Number 126481.01211

Complete if Known

Application Number	10/534,097
Filing Date	November 8, 2005
First Named Inventor	Stupp
Group Art Unit	1653
Examiner Name	Not Yet Assigned

U.S. PATENT DOCUMENTS

Examiner's Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code (if known)			
/SL/	AA	US 2003/0176335	A1	Zhang et al.	09-18-2003	
/SL/	AB	US 6,096,863		Fields et al.	08-01-2000	
/SL/	AC	US 5,993,541		Litvin et al.	11-30-1999	

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Examiner's Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office	Number	Kind Code (if known)				
/SL/	BA	WO	2005/003292	A2	Northwestern University	01-13-2005		
/SL/	BB	WO	2003/070749	A2	Northwestern University	08-28-2003		
/SL/	BC	WO	1998/07752	A1	Regents of the Univ. of Minn.	02-26-1998		

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner's Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
/SL/	CA	HARTGERINK et al., Self-Assembly and Mineralization of Peptide-Amphiphile Nanofibers, 2001, Science 294:1684-1688	
	CB	AGGELI et al., Responsive gels formed by the spontaneous self-assembly of peptides into polymeric β-sheet tapes, 1997, Nat., 259-262	
	CC	HOLMES et al., 2000 (Reference to be provided at a later date)	
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	CN	BRAUN et al., CdS Mineralization of Hexagonal, Lamellar, and Cubic Lyotropic Liquid Crystals, 1999, Mat. Res. Bull. 34(3):463-469	
/SL/	CO	XU, Biomimetic Synthesis of Macroscopic-Scale Calcium Carbonate Thin Films. Evidence for a Multistep Assembly Process, 1998, J. Am. Chem. Soc. 120:11977-11985	

/Samuel Liu/

04/05/2007



<p>Substitute for form 1449/PTO</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(use as many sheets as necessary)</p>				Complete if Known		
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Sheet 2 of 2				Attorney Docket Number		
/SL/	CP	MURATA et al., Membrane Fusion Induced by Mutual Interaction of the Two Charge-reversed Amphiphilic Peptides at Neutral pH, 1991, J. Biol. Chem. 266(22):14353-14358				
/SL/	CQ	YAMADA et al., Formation of Helical Super Structure from Single-Walled Bilayers by Amphiphiles with Oligo-L-Glutamic Acid-Head Group, 1984, Chemistry Letters, 10:1713-1716				
Examiner Signature	/Samuel Liu/			Date Considered	04/05/2007	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Substitute for form 1449A/B/PTO				<i>Complete if Known</i>	
				Application Number	10/534,097
				Filing Date	November 8, 2005
				First Named Inventor	Samuel I. STUPP et al.
				Art Unit	1653
				Examiner Name	Unknown
Sheet	1	of	21	Attorney Docket Number	NANO 106 US2 (NU 22088)

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
<i>swl</i>	A1	4554101	11-19-1985	Hopp	
	A2	4930077	05-29-1990	Fan	
	A3	5130123	07-14-1992	Reynolds et al.	
	A4	5208111	05-04-1993	Decher et al.	
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	A6	5733868	03-31-1998	Peterson et al.	
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	A8	5955343	09-21-1999	Holmes et al.	
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<i>swl</i>	B1	JP 03099096 A	04-24-1991	Shimizu et al.	
	B2	WO 97/14713 A1	04-24-1997	Perrier et al.	
	B3	WO 97/20639 A1	06-12-1997	Arnebrant et al.	
	B4	WO 00/13710 A2	03-16-2000	Jennings et al.	
	B5	WO 00/64481 A1	11-02-2000	Sakiyama et al.	
	B6	WO 00/44808 A1	08-03-2000	Elbert et al.	
<i>swl</i>	B7	WO 00/52145 A2	09-08-2000	Robl et al.	

Examiner Signature	<i>swl</i>	Date Considered	4-9-07
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	B9	WO 02/062969 A2	08-15-2002	Semino et al.		
	B10	WO 03/040336 A2	05-15-2003	Fishman et al.		
	B11	WO 03/054146 A2	07-03-2003	Stupp et al.		
	B12	WO 03/084980 A2	10-18-2003	Stupp et al.		
	B13	WO 03/090255 A2	10-30-2003	Stupp et al.		
	B14	WO 2004/003561 A1	01-08-2004	Stupp et al.		
	B15	WO 2004/018628 A2	03-04-2004	Stupp et al.		
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	B17	WO 2004/046167 A2	06-03-2004	Stupp et al.		
	B18	WO 2004/072104 A2	08-28-2004	Stupp et al.		
	B19	WO 2004/106359 A2	12-09-2004	Stupp et al.		
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<i>SWL</i>	B22	WO 2006/096614 A2	09-14-2006	Stupp et al.		

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NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
<i>SWL</i>	C1	Brown, Walter E. December 15, 1962. "Octacalcium Phosphate and Hydroxyapatite." <i>Nature</i> . Vol. 196, pp. 1048-1050.	
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	C8	Kelly, Margaret M., E. S. Pysh, G. M. Bonora, and C. Toniolo. May 11, 1977. "Vacuum Ultraviolet Circular Dichroism of Protected Homooligomers Derived from L-Leucine." <i>Journal of the American Chemical Society</i> . Vol. 99, No. 10, pp. 3264-3266.	
	C9	Blumenthal, N. C., A. S. Posner, L. D. Silverman, and L. C. Rosenberg. 1979. "Effect of Proteoglycans on in Vitro Hydroxyapatite Formation." <i>Calcified Tissue International</i> . Vol. 27, No. 1, pp. 75-82.	
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Examiner Signature	<i>SWL</i>	Date Considered	4-9-07
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				Examiner Name	Unknown
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<i>gwl</i>	C11	Neurones Regenerate into PNS Grafts." <i>Nature</i> . Vol. 284, pp. 264-265.
	C12	Lim, Franklin and Anthony M. Sun. November 21, 1980. "Microencapsulated Islets as Bioartificial Endocrine Pancreas." <i>Science</i> . Vol. 210, No. 4472, pp. 908-910.
	C13	Jain, Rakesh K., Chhitar M. Gupta, and Nitya Anand. 1981. "Synthesis of Peptidylglycophospholipids, Novel Derivatives of Muramyl-Dipeptide." <i>Tetrahedron Letters</i> . Vol. 22, No. 24, pp. 2317-2320.
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Examiner Signature	<i>[Signature]</i>	Date Considered	4-9-07
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<i>swl</i>	Cell-Derived Heparan Sulfate Binds Basic Fibroblast Growth Factor and Protects It from Proteolytic Degradation." <i>The Journal of Cell Biology</i> . Vol. 107, pp. 743-751.
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C35	Sambrook, Joseph, Edward F. Fritsch, and Thomas Maniatis. 1989. "Genes Encoding Selectable Markers." <i>Molecular Cloning: A Laboratory Manual</i> . 2 nd ed. New York: Cold Spring Harbor Laboratory Press. Pp. 16.9-16.15.
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<i>swt</i>	C49	Cook, Stephen D., Kevin A. Thomas, Jeanette E. Dalton, Todd K. Volkman, Thomas S. Whitecloud III, and John F. Kay. 1992. "Hydroxylapatite Coating of Porous Implants Improves Bone Ingrowth and Interface Attachment Strength." <i>Journal of Biomedical Materials Research</i> . Vol. 26, pp. 989-1001.	
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				Application Number	10/534,097
				Filing Date	November 8, 2005
				First Named Inventor	Samuel I. STUPP et al.
				Art Unit	1653
				Examiner Name	Unknown
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Examiner Signature	<i>SWL</i>	Date Considered	4-9-07
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				Application Number	10/534,097
				Filing Date	November 8, 2005
				First Named Inventor	Samuel I. STUPP et al.
				Art Unit	1653
				Examiner Name	Unknown
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Sheet	11	of	21	Attorney Docket Number	NANO 106 US2 (NU 22088)
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		Complete if Known			
		Application Number	10/534,097		
		Filing Date	November 8, 2005		
		First Named Inventor	Samuel I. STUPP et al.		
		Art Unit	1653		
		Examiner Name	Unknown		
<i>SWL</i>		C159	1999. "Functional Arteries Grown in Vitro." <i>Science</i> . Vol. 284, pp. 489-493.		
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<i>Swl</i>	"Bonelike Apatite Coating on Organic Polymers: Novel Nucleation Process Using Sodium Silicate Solution." <i>Biomaterials</i> . Vol. 20, pp. 913-919.				
C178	Pakalns, Teika, Kraig L. Haverstick, Gregg B. Fields, James B. McCarthy, Daniel L. Mooradian, and Matthew Tirrell. 1999. "Cellular Recognition of Synthetic Peptide Amphiphiles in Self-Assembled Monolayer Films." <i>Biomaterials</i> . Vol. 20, pp. 2265-2279.				
C179	Pittenger, Mark F., Alastair M. Mackay, Stephen C. Beck, Rama K. Jaiswal, Robin Douglas, Joseph D. Mosca, Mark A. Moorman, Donald W. Simonetti, Stewart Craig, and Daniel R. Marshak. April 2, 1999. "Multilineage Potential of Adult Human Mesenchymal Stem Cells." <i>Science</i> . Vol. 284, pp. 143-147.				
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C182	Schense, Jason C. and Jeffrey A. Hubbell. 1999. "Cross-Linking Exogenous Bifunctional Peptides into Fibrin Gels with Factor XIIIa." <i>Bioconjugate Chem</i> . Vol. 10, No. 1, pp. 75-81.				
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C188	Martinez, J. S., G. P. Zhang, P. D. Holt, H. -T. Jung, C. J. Carrano, M. G. Haygood, and Alison Butler. February 18, 2000. "Self-Assembling Amphiphilic Siderophores from Marine Bacteria." <i>Science</i> . Vol. 287, No. 5456, pp. 1245-1247.				
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C178	Pakalns, Teika, Kraig L. Haverstick, Gregg B. Fields, James B. McCarthy, Daniel L. Mooradian, and Matthew Tirrell. 1999. "Cellular Recognition of Synthetic Peptide Amphiphiles in Self-Assembled Monolayer Films." <i>Biomaterials</i> . Vol. 20, pp. 2265-2279.				
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C186	Yu, Ying-Ching, Vikram Rooniga, Vladimir A. Daragan, Kevin H. Mayo, Matthew Tirrell, and Gregg B. Fields. 1999. "Structure and Dynamics of Peptide—Amphiphiles Incorporating Triple-Helical Proteinlike Molecular Architecture." <i>Biochemistry</i> . Vol. 38, No. 5, pp. 1659-1668.				
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C188	Martinez, J. S., G. P. Zhang, P. D. Holt, H. -T. Jung, C. J. Carrano, M. G. Haygood, and Alison Butler. February 18, 2000. "Self-Assembling Amphiphilic Siderophores from Marine Bacteria." <i>Science</i> . Vol. 287, No. 5456, pp. 1245-1247.				
C189	Verrecchio, Angela, Markus W. Germann, Barbara P. Schick, Brian Kung, Thomas Twardowski, and James D. San Antonio. March 17, 2000. "Design of Peptides with High Affinities for Heparin and Endothelial Cell Proteoglycans." <i>The Journal of Biological Chemistry</i> . Vol. 275, No. 11, pp. 7701-7707.				
C190	Cao, H., J. Y. Xu, E. W. Seelig, and R. P. H. Chang. May 22, 2000. "Microlaser Made of Disordered Media." <i>Applied Physics Letters</i> . Vol. 76, No. 21, pp. 2997-2999.				
C191	Marler, Jennifer J., Amrita Guha, Jonathan Rowley, Rahul Koka, David Mooney, Joseph Upton, and Joseph Vacanti. May 2000. "Soft-Tissue Augmentation with Injectable Alginate and Syngeneic Fibroblasts." <i>Plastic and Reconstructive Surgery</i> . Vol. 105, No. 6, pp. 2049-2058.				
C192	Holmes, Todd C., Sonsoles de Lacalle, Xing Su, Guosong Liu, Alexander Rich, and Shuguang Zhang. June 6, 2000. "Extensive Neurite Outgrowth and Active Synapse Formation on Self-Assembling Peptide Scaffolds." <i>Proceedings of the National Academy of Sciences of the United States of America</i> . Vol. 97, No. 12, pp. 6728-6733.				
C193	Whaley, Sandra R., D. S. English, Evelyn L. Hu, Paul F. Barbara, and Angela M. Belcher. June 8, 2000. "Selection of Peptides with Semiconductor Binding Specificity for Directed Nanocrystal Assembly." <i>Nature</i> . Vol. 405, pp. 665-668.				
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<i>SNL</i>		Essential for Dimerization, Activities, and Peptide Binding of <i>Escherichia coli</i> DsbC." <i>The Journal of Biological Chemistry</i> . Vol. 275, No. 30, pp. 22743-22749.	
	C195	Hsu, Wei-Cherng, Mark H. Spilker, Ioannis V. Yannas, and Peter A. D. Rubin. August 2000. "Inhibition of Conjunctival Scarring and Contraction by a Porous Collagen-Glycosaminoglycan Implant." <i>Investigative Ophthalmology & Visual Science</i> . Vol. 41, No. 9, pp. 2404-2411.	
	C196	Schlessinger, Joseph, Alexander N. Plotnikov, Omar A. Ibrahim, Anna V. Eliseenkova, Brian K. Yeh, Avner Yaron, Robert J. Linhardt, and Moosa Mohammadi. September 2000. "Crystal Structure of a Ternary FGF-FGFR-Heparin Complex Reveals a Dual Role for Heparin in FGFR Binding and Dimerization." <i>Molecular Cell</i> . Vol. 6, pp. 743-750.	
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	C208	Dori, Yoav, Havazelet Bianco-Peled, Sushil K. Satija, Gregg B. Fields, James B. McCarthy, and Matthew Tirrell. 2000. "Ligand Accessibility as Means to Control Cell Response to Bioactive Bilayer Membranes." <i>Journal of Biomedical Materials Research</i> . Vol. 50, pp. 75-81.	
	C209	Forns, Pilar, Janelle L. Lauer-Fields, Su Gao, and Gregg B. Fields. 2000. "Induction of Protein-Like Molecular Architecture by Monoalkyl Hydrocarbon Chains." <i>Biopolymers</i> . Vol. 54, pp. 531-546.	
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				Complete if Known
				Application Number 10/534,097
				Filing Date November 8, 2005
				First Named Inventor Samuel I. STUPP et al.
				Art Unit 1653
				Examiner Name Unknown
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(Use as many sheets as necessary)

Sheet	19	of	21	Attorney Docket Number	NANO 106 US2 (NU 22088)
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		Complete if Known						
		Application Number	10/534,097					
		Filing Date	November 8, 2005					
		First Named Inventor	Samuel I. STUPP et al.					
		Art Unit	1653					
		Examiner Name	Unknown					
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Examiner Signature	<i>SWL</i>	Date Considered	4-9-07
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Sheet	20	of	21	Attorney Docket Number	NANO 106 US2 (NU 22088)
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Examiner Signature		Date Considered	4-9-07
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				Art Unit	1653
				Examiner Name	Unknown
Sheet	21	of	21	Attorney Docket Number	
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<i>SAC-L</i>	www.brynmawr.edu/Acads/Chem/mnerzsto/amino_acids.htm, amino_acids_2.gif, and amino_acids3.htm.	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	<i>MWS</i>	Date Considered	4-9-07
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